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Arani LED T-8 Luminaire

USER GUIDE

NOTE:
This user guide is to explain the steps necessary to use the specified and assure peak performance. Its intended use is for reference only, by a fully qualified electrician or technician of equivalent qualification. This document should never be considered as a substitute for any provision of a regulation or state and/or local code. Please read this entire manual to fully understand and safely use this product. Specifications are subject to change without notice. To insure latest up to date info, please call us at 514-903 2296 or visit our website at www.arani.ca

GETTING STARTED
The Arani LED T-8 Lamp & Luminaire (The Product) is an energy efficient replacement for conventional "T" series fluorescent lighting. The luminaire can include both the fixture housing and the appropriate number of Arani LED T-8 tubes for the given model purchased. The Arani LED T-8 tube encloses LEDs into polymeric based (plastic) tube housing to emit light like conventional "T" series fluorescent lighting. General illumination applications include but not limited to: commercial office lighting, public transportation (buses and trains), task lighting, store displays, warehouse illumination, under cabinets and etc.
Arani LED T-8 lamps can be purchased separately for use with the Arani Luminaire or as replacements.

Installation in similar type fixtures or luminaires is also possible, see detailed instructions below.

This guide contains important information about installing and operating Arani LED T-8 Lamps & Luminaires safely and accurately.

Typical Items Included in Box – 1 Luminaire
1x Arani T-8 LED (good for housing two Lamps)
2x Arani T-8 LED Tube Lamps
1x User Guide

Unpacking
1) Unpack and carefully examine the product. Avoid the use of a razor knife.
2) Report any damage and save all packing materials if any part is damaged during transport.
3) Do not attempt to use this apparatus if it is damaged.

Warnings
1) Risk of electric shock. Ensure that the power is off when installing the lamps or luminaire.
2) The device should be installed by a qualified electrician or technician in accordance to relevant local codes.
3) Do not attempt to connect the device until you read and understand the installation instructions.

User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate the Product in such a manner as to comply with all state / provincial and local laws, ordinances, and regulations.

Note:

The instructions and precautions set forth in this user guide are not necessarily all-inclusive, all conceivable, or relevant to all applications as Arani LED cannot anticipate all conceivable or unique situations.

Installation Steps

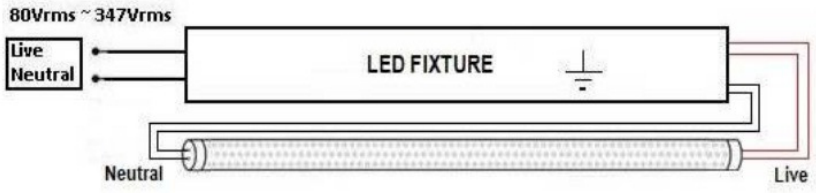
The Luminaire can be installed in two application types: New installation and Retrofit. For new installations, the Luminaire replaces the entire existing fluorescent "T series" luminaire. For retrofit projects, the Arani LED T-8 tube can operate with the existing electronic or magnetic ballast installed in the existing fixture. The Arani T-8 LED Tube can also operate with a direct AC (80Vrms -347Vrms) or DC (80-350 V) voltage.

Note:

*W*hen installed in a fixture with direct 120AC voltages the fixture must be labeled as such and the input voltage must be clearly identified on the fixture to avoid potential problems if a standard fluorescent tube is installed in the fixture.

1. New Luminaire Installation – Direct Voltage (AC or DC)
   a. Switch the power to "OFF" position so that no current can flow during installation
   b. Install Arani LED T-8 fixture and wire accordingly. (Live, Neutral, Ground)
   c. Install Arani LED T-8 tube(s) into the fixture;
   d. Switch the power to"ON" to light Arani LED T-8 tube(s).

Wiring Diagram:



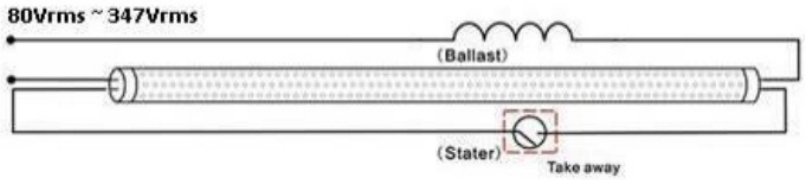
2. Retrofit Option 1 – Use of Existing Fluorescent Fixture with Ballast(s) (electronic or magnetic)
   a. Switch the power to "OFF" position so that no current can flow during installation
   b. Remove the existing fluorescent lamp(s) from the fluorescent light fixture
   c. Install Arani LED T-8 tube(s) into the light fixture
   d. Switch the power to "ON" to light Arani LED T-8 tube(s).

Wiring Diagram:

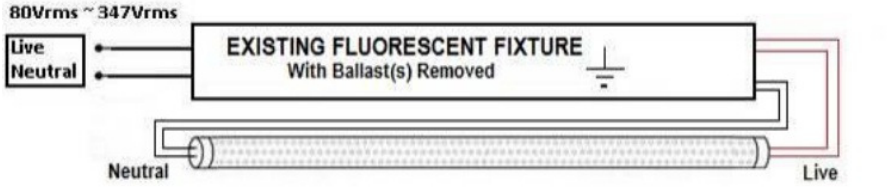
3. Retrofit Option 2 – Use of Existing Fluorescent Fixture with Direct Voltage (AC or DC)
   a. Switch the power to “OFF” position so that no current can flow during installation
   b. Remove the existing fluorescent lamps from the fluorescent light fixture
   c. Remove the starter (if applicable)
   d. Remove the ballast(s) and then reconnect the circuit to the lamp holders
   e. Install Arani LED T-8 tube(s) into the light fixture
   f. Switch the power to”ON” to light Arani LED T-8 tube(s).

Wiring Diagram:

Before



After



Lamp holder picture 1

Lamp holder picture 2

Note:

Please ensure that the proper connection is made with the lamp-holder connection points and the end caps. Ensure that the end caps are in the rest position. Once the rest position is established, the tube can now be inserted into the lamp holders. In order to correctly position the pins there is a neutral or rest position which will lye the pins horizontally in line with the LED's. The user will note a notch position which is felt when rotating the end caps: this signifies the rest or neutral position. It is important to note that the both pins

must be horizontally aligned and sitting in their respective notches of the lamp holder in order to be properly connected. If there is any buzzing or arcing turn power off immediately and correctly position the end cap pins within the lamp-holders. See lamp holder pictures for visual help.

Arani LED T-8 Light Specifications

Input Voltage – AC: 80Vrms - 347Vrms (120/208/240/347 VAC)
Input Voltage – DC: 80VDC – 350VDC
Maximum Current: 200mA @ 120 VAC
Input signals: Sine wave, Saw tooth wave, Square wave, any combination of the preceding
Input Frequency: 0Hz – 200 KHz
Power Factor: 1
THD: <10%
Color: White
Lumens: 1860 lm (4100K model)
Max Power Consumption: 18W
Standard Power Consumption: 15W
Beam Angle: 120 degree
Length: ~1200mm (3.94 ft)
Work Environment: Indoor use / Outdoor use, applicable for dry / damp environment

QUALITY WARRANTY

This product is sold pursuant to Arani LED Standard Terms and Conditions which can be found at www.arani.ca and which contain important provisions, including, among others, Quality Warranty, exclusions and limitations on Arani LED liability for damages, and restrictions on the remedies that are available to you.

CLEANING PROCEDURE

It is recommended that this product only be cleaned using a dry tact style cloth as required. Do not clean electronics with wet or damp clothes/rags nor any product containing V.O.Cs or solvents, as this is a shock and/or fire hazard.